

## AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the application.

1. – 92. (Cancelled)

93. (new) A method for providing a user interface, comprising:

sending a request for content from an Internet browser to a server;

receiving an interface engine in response to said request, said interface engine includes a set of views, layouts, constraints and animators;

receiving requests to change appearances of items displayed in said browser that are represented by said views; and

changing said appearances of said items in said browser by providing continuous fluid transitions of appearances of said items using said layouts, constraints and animators.

94. (new) A method according to claim 93, wherein:

said requests to change appearances includes a request to change a position of a first item in said user interface.

95. (new) A method according to claim 93, wherein:

said requests to change appearances includes a request to change a size of a first item in said user interface.

96. (new) A method according to claim 93, wherein said changing said appearances of said items includes:

calling one or more attribute modifiers; and

modifying a first view in response to said one or more attribute modifiers.

97. (new) A method according to claim 96, wherein:  
said calling one or more attribute modifiers includes calling a first animator to animate a property of said first view; and  
said modifying a first view includes animating said property in response to said first animator.

98. (new) A method according to claim 97, further comprising:  
calling a constraint to modify an attribute in response to animating said property; and  
modifying said attribute in response to said constraint.

99. (new) A method according to claim 96, wherein:  
said first view identifies a set of child views;  
said calling one or more attribute modifiers includes calling a layout to layout one or more of said child views; and  
said modifying a first view includes laying out said one or more child views in response to said layout.

100. (new) A method for providing a user interface, comprising:  
receiving a request to change an item displayed in a network browser from a first visual state to a second unplanned visual state; and  
implementing said requested change by providing continuous fluid transitions for said item from said first visual state to said second unplanned visual state.

101. (new) A method according to claim 100, further comprising:  
sending a request to a server via a network;  
receiving an interface engine in response to said request to said server; and  
running said interface engine within said network browser, said implementing said requested change is performed by said interface engine.

102. (new) A method according to claim 101, wherein:  
said interface engine includes views, layouts, constraints and animators;  
said user interface is implemented using said views, layouts, constraints and animators;  
said item is associated with a first view; and  
said continuous fluid transitions are performed using at least one of said animators with said first view.

103. (new) A method according to claim 100, wherein:  
said item is associated with a first view of a set of views that comprise said user interface;  
and  
said continuous fluid transitions are performed by a method comprising calling one or more attribute modifiers for said first view and modifying said first view in response to said one or more attribute modifiers.

104. (new) A method according to claim 103, wherein:  
said attribute modifiers includes layouts, constraints and animators.

105. (new) A method according to claim 100, wherein:  
said first visual state pertains to a first position; and  
said second unplanned visual state pertains to a second position.

106. (new) A method according to claim 100, wherein:  
said first visual state pertains to a first size; and  
said second unplanned visual state pertains to a second size.

107. (new) An apparatus that provides a user interface, comprising:  
a storage device;

a communications interface in communication with a network;  
a display; and  
one or more processors in communication with said storage device, said communications interface and said display;

said one or more processors implement a browser that receives an interface engine from a server in communication with said browser via said network, said interface engine implements a user interface within said browser, said interface engine includes a set of views, layouts, constraints and animators;

said browser receives a requests to change appearances of items displayed in said browser that are represented by said views and changes said appearances by providing continuous fluid transitions of appearances of said items using said layouts, constraints and animators.

108. (new) An apparatus according to claim 107, wherein:  
said requests to change appearances includes a request to change a position of an item in said user interface.

109. (new) An apparatus according to claim 107, wherein:  
said requests to change appearances includes a request to change a size of an item in said user interface.

110. (new) An apparatus according to claim 107, wherein said changing said appearances of said items includes:

calling one or more attribute modifiers, said attribute modifiers includes said layouts, constraints and animators; and

modifying a first view in response to said one or more attribute modifiers.

111. (new) An apparatus according to claim 110, wherein:  
said calling one or more attribute modifiers includes calling a first animator to animate a

property of said first view; and

said modifying a first view includes animating said property in response to said first animator.

112. (new) An apparatus according to claim 111, wherein:

said interface engine calls a constraint to modify an attribute in response to animating said property and modifies said attribute in response to said constraint.

113. (new) One or more processor readable storage devices having code embodied on said one or more processor readable storage devices, said code for programming one or more processors to perform a method comprising:

sending a request for content from an Internet browser to a server;

receiving an interface engine in response to said request, said interface engine includes a set of views, layouts, constraints and animators;

receiving requests to change appearances of items displayed in said browser that are represented by said views; and

changing said appearances of said items in said browser by providing continuous fluid transitions of appearances of said items using one or more attribute modifiers, said attribute modifiers include said layouts, constraints and animators.

114. (new) One or more processor readable storage devices according to claim 113, wherein:

said requests to change appearances includes a request to change a position of a first item in said user interface.

115. (new) One or more processor readable storage devices according to claim 113, wherein:

said requests to change appearances includes a request to change a size of a first item in said

user interface.

116. (new) One or more processor readable storage devices according to claim 113, wherein:

said changing said appearances includes calling a first animator to animate a property of a first view.

117. (new) One or more processor readable storage devices according to claim 113, wherein:

said changing said appearances further includes calling a first constraint to modify an attribute of a first view in response to a second view.

118. (new) One or more processor readable storage devices according to claim 113, wherein:

said changing said appearances includes changing a first view;

said first view identifies a set of child views; and

said changing a first view includes calling a layout to layout one or more of said child views.

119. (new) One or more processor readable storage devices having code embodied on said one or more processor readable storage devices, said code for programming one or more processors to perform a method comprising:

receiving a request to change an item displayed in a network browser from a first visual state to a second unplanned visual state; and

implementing said requested change by providing continuous fluid transitions for said item from said first visual state to said second unplanned visual state.

120. (new) One or more processor readable storage devices according to claim 119, wherein:

said code includes views, layouts, constraints and animators;

said item is associated with a first view;

said continuous fluid transitions are provided by a method comprising calling one or more attribute modifiers for said first view and modifying said first view in response to said one or more attribute modifiers; and

said one or more attribute modifiers includes said layouts, constraints and animators.

121. (new) One or more processor readable storage devices according to claim 119, wherein:

said code includes views, layouts, constraints and animators;

said item is associated with a first view;

said continuous fluid transitions are provided by calling one or more animators to animate said first view in response to said request to change; and

said calling one or more animators includes informing said one or more animators of said second unplanned visual state.

122. (new) One or more processor readable storage devices according to claim 119, wherein:

said first visual state pertains to a first position; and

said second unplanned visual state pertains to a second position.

123. (new) One or more processor readable storage devices according to claim 119, wherein:

said first visual state pertains to a first size; and

said second unplanned visual state pertains to a second size.